THE INNOVATORS IN SURFACE PREPARATION

BLASTRAC

OPERATING MANUAL BG-250E & BG-250P

VERSION 2.0

WWW.BLASTRAC.EU • INFO@BLASTRAC.EU

BLASTRAC

EC DECLARATION OF CONFORMITY
in accordance with Appendix II sub A of Directive 2006/42/EC

BLASTRAC B.V.
Utrechthaven 12
NL - 3433 PN NIEUWEGEIN
Tel: 0031 (0)30 601 88 66
Fax: 0031 (0)30 601 83 33
Info@Blastrac.eu
The Netherlands

Declare under our sole responsibility that the machine as described below
Conforms with the Health and Safety requirements of the European Directive
of the machine Safety.

In case of changes to the machine without our written authorization this declaration loses its validity.

Model:	***BLASTRAC BG-250E***	***Serial number: xxxxB***
	BLASTRAC BG-250P	***Serial number: xxxxB***

1. satisfies the conditions set out in the Machine Directive (Directive 2006/42/EC); Low voltage directive (2006/95/EC, as last amended; EMC directive 2004/108/EC, as last amended)
2. satisfies the following harmonized standards:
   NEN-EN 349, NEN-EN 418, NEN-EN 294 and NEN-EN 60204

Nieuwegein 12-08-2011

Michiel Kalisvaart

CE

BLASTRAC

Table of contents

EC Declaration of Conformity 02

1. Introduction 04

2. Machine description 04
Application
Accessory's

3. Safety 05
Safety precautions
Safety regulations
Safety instructions

4. Initial operation 07
Checkpoints of electrical safety
Checkpoints of machine safety
Removing the diamond disc
Mounting the diamond disc

5. Operating 08
Switch on the BG-250E
Switch off the BG-250E
Switch on the BG-250P
Switch off the BG-250P
Operating during grinding

6. Maintenance 10
Replacing the flexible coupling

7. Technical data 11

Contact 12

1. Introduction

It is important that all persons who are working or maintaining with this machine will read the manual carefully and understand it fully. Keep this manual near to the machine, so it can always be consulted.
Only authorized and trained personnel may operate this machine.

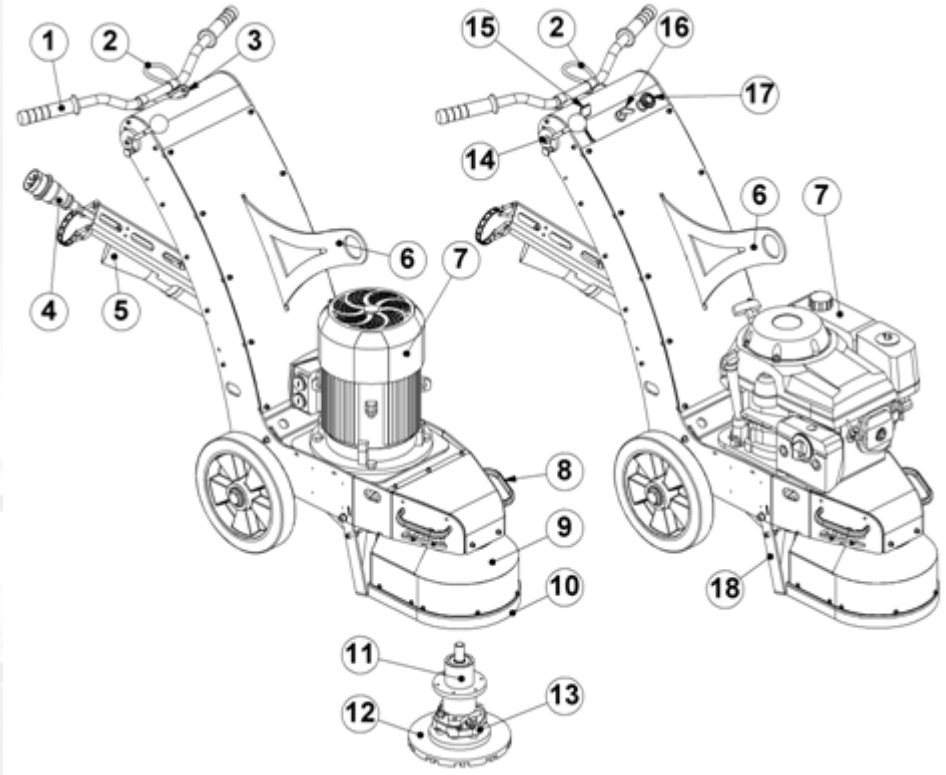
2. Machine description

The BG-250 is an electric or petrol driven floor grinding machine for treating horizontal surfaces.
The machine has a rotating adapter plate where the diamond disc can be fixed on
The rotating parts are covered by a protection cap with a connection for a dust hose.
With a suitable Blastrac dust collector you can work without causing dust.

Application

The BG-250 can be used on almost any floor to plane, to remove coatings or glue residues or to make ready for coatings.

1	Steer handle	7	Drive motor	13	Flexible coupling
2	Cord & key for deadman switch	8	Lifting handles	14	Lever handle
3	On / Off emergency switch	9	Dust cap	15	Gas throttle
4	Socket with phase inverter	10	Brush for dust cap	16	Contact switch
5	Dust hose connection	11	Bearing unit	17	Stop button
6	Lifting eye	12	Grinding disc	18	Machine support



Accessory's

There are several types of discs that may be used on this machine.
The discs that can be used are:

E01419	Diamond disc 250mm soft Red
E01402	Diamond disc 250mm middle Green
E01417	Diamond disc 250mm hard Blue
BG707114	250mm black star grinding disc
BG707250	250mm PCD grinding disc
005014	10m suction hose ø76mm

3. Safety

Before operating the machine, the personnel must be familiar with the safety instructions given in this manual. Keep this manual near to the machine, so it can always be consulted.

Safety precautions

- The surface to be treated must be swept clean to remove stones, screws etc.
- Never use the machine when the surface is not clear and if there is a risk of tripping.
- Be careful with water on the treated surface. Electrical cables must not come into contact with water.
- Remove any electrical cable and or dust hose from the surface to be treated
- Always use a dust collector when grinding dry.
- Don't get disturbed during the activities.

Safety regulations

- Persons who are not operating the machine must not be permitted to stay in the surrounding area of the machine.
- Don't change anything on the machine. Use always cables which are approved and safety earthed (extend) cables. The machine is always equipped with an earthed connection, do not change this and use always earthed cables with an earthed plug.
- Connect main power supply cable to an installation with an earth leakage circuit breaker.
- Inspect and test the electrical components regularly. The electrical components have to satisfy to the requirements which apply to these components.
- Always call a skilled electrician or your distributor when you have questions about the safety of the electrical components.
- Work on electrical equipment or operating materials may only be undertaken by a skilled electrician or by trained persons under the guidance and supervision of a skilled electrician as well as in accordance with the electrical engineering regulations.
- Pull out the key of the deadman switch and the main plug (on electrical versions) during inspection, maintaining, disc change and/or repairing on the machine.
- Never use the machine in the rain.
- The machine contains rotating parts, so always leave the diamond disc on the floor while the motor is turning.
- The flexible coupling can become obsolete with use, because of this there can be higher vibrations than normal. Check for this reason regularly the flexible coupling.

The following sticker is placed on the machine.

Meanings of these symbols are:

- Ear protection is obliged
- Safety glasses with lateral protection are obliged
- CE-mark on this machine
- Safety shoes obliged
- Consult the manual before operating the machine

Personnel must tie back long hair and not wear loose clothing or jewellery including rings.
Wear gloves and dust mask during operating the machine.

Safety instructions

- Do not stand the machine on the diamond disc or coupling when it is not in use, this will cause deformation to the flexible coupling. Put the machine always on the machine support which is made for this reason.
- Make sure the machine is clean and that the handgrips are dry and free of grease and oil.
- Make sure the brush seals are in good condition, this to avoid dust.
- Pull out the key of the deadman switch and the main plug (on electrical versions) when changing the disc or flexible coupling.
- It is not allowed to lift the machine without use of appropriate appliances as a lift or crane.Lift the machine up on the lifting eye.

4. Initial operations

Before using the machine it is committed to inspect the machine.
It is not permitted to use the machine if the machine safety is not according the checkpoints below.

Checkpoints for electrical safety

- Use only extension cables for extending the main cable that are sized and marked in accordance with the overall power consumption of the machine.
- Electrical cables must be rolled entirely off of the reels.
- Any damage to electric cables is not permitted
- Use an electrical power supply connection with earth connection
- Be careful with water on the treated surface. Electrical cables must not come into contact with water.

Checkpoints of machine safety

Check if:

- The safety functions and operating functions work correct.
- The flexible coupling is not deformed or damaged
- The diamond disc is not damaged
- There are no damages on the electrical components.
- There is no oil or petrol leaking out of the petrol engine.
- There are not any loose nuts or bolts
- There is no damage to the dust hose and if it is connected well.

Removing the diamond disc

- Make sure the key of the deadman switch and the power supply plug (on electrical versions) are out of the machine
- Lay down the machine so it is lying on the handle. Make sure the machine will not fall back down. A second person can stands on the handle to make sure it will not fall back down.
- Loosen the 4 bolts with an appropriate key.
- Remove the diamond or multiflail disc.

Mounting the diamond disc

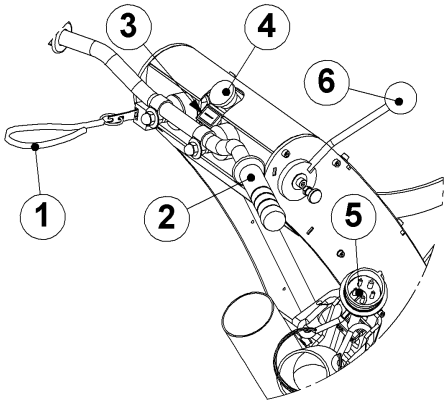
- Make sure the power supply plug is out of the machine.
- Lay down the machine so it is lying on the handle. Make sure the machine will not fall back down. A second person can stands on the handle to make sure it will not fall back down.
- Fix the diamond or multiflail disc underneath the adapter plate and turn the 4 bolts with an appropriate key tight.

5. Operating

During operating the BG-250, the following additional safety instructions must be followed closely.

Switch on the BG-250E

- Turn on the dust collector before switching on the machine.
- Connect the dust hose with the machine
- Stand behind the machine
- Make sure that the machine stands on the machine support.
- Put the cord of the deadman switch (1) on to your arm or put it on to your clothing.
- Check if the key of the deadman switch (1) is in and the emergency stop button (4) is turned up.
- Take the steering handle (2) with one hand and push the start button (3)
- Check if the machine turns the right direction. The fan has to turn clockwise when looking on top of the fan.
- If not, push the stop button (4) and turn the phase inverter in the socket (5) and start the machine again.
- Lift the machine support with the lever handle (6) and let down the machine till the diamond disc hits the floor
- Start grinding

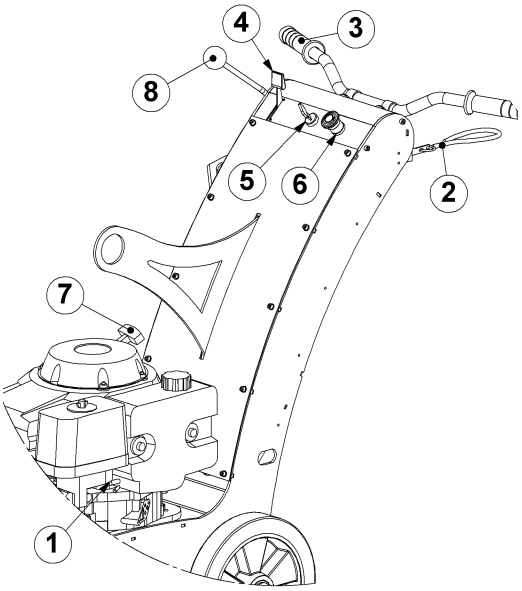


Switch off the BG-250E

- Push the red button (4) on the electrical box
- Wait until the machine stops rotating before you set the machine on the support with the lever handle (6)
- Pull out the power supply and the key of the deadman switch (1)
- Shut down the dust collector.

Switch on the BG-250P

- Turn on the dust collector before switching on the machine.
- Connect the dust hose with the machine
- Open the fuel valve (1)
- Stand behind the machine
- Make sure that the machine stands on the machine support.
- Put the cord of the deadman switch (2) on to your arm or put it on to your clothing.
- Check if the key of the deadman switch (2) is in and the emergency stop button (6) is turned up.
- Take the steering handle (3) with one hand pull the gas throttle (4) up to the half and turn the contact switch (5) to start the engine.
- When the accu is empty, the machine could always be started with the cord (7)
- Lift the machine support with the lever handle (8) and let down the machine till the diamond disc hits the floor
- Start grinding and pull the gas throttle (4) for more grinding speed.

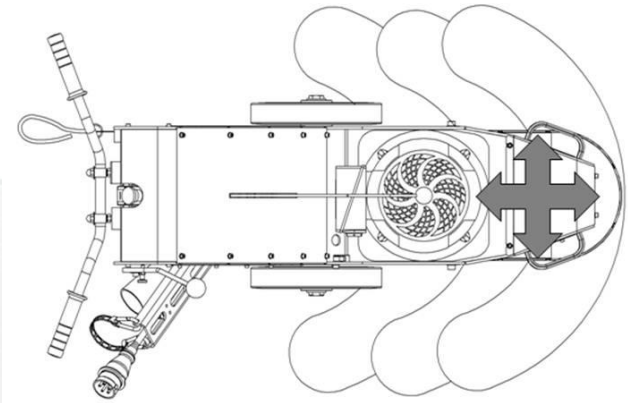


Switch off the BG-250P

- Push the gas throttle (4) to the front.
- Push the red button (6)
- Wait until the machine stops rotating before you set the machine on the support with the lever handle (8)
- Pull out the power supply and the key of the deadman switch (2)
- Close the fuel valve (1)
- Shut down the dust collector.

Operating during grinding

To get an optimum result during grinding, the machine may not stand still. The machine must always be in movement so it does not grind to deep into the floor. Move the machine from left to right and from forward to backwards to get a nice flat result.



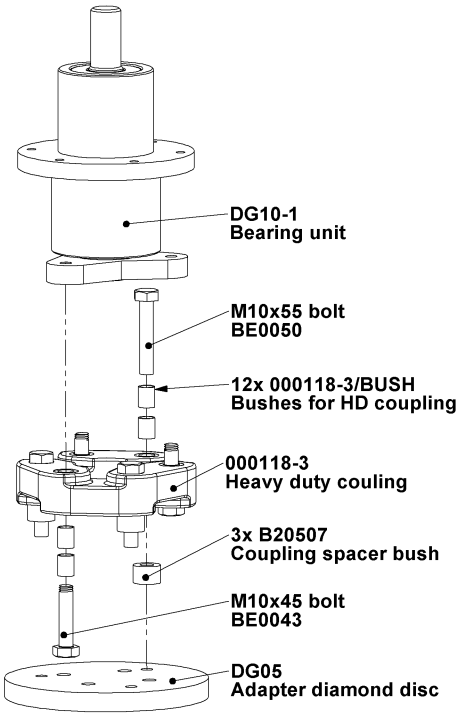
6. Maintenance

Work only with original Blastrac parts.

Check regularly to see if the diamond disc is in good condition. Replace immediately the diamond disc when this is damaged or worn out.
Check if the flexible coupling is stiff enough after every day working. Replace if any deformation or damage is found.
Unusual vibrations on the machine check immediately the diamond disc and flexible coupling

Replacing the flexible coupling:

- Pull out the key of the deadman switch.
- Pull out the main plug (electric version)
- Remove the diamond disc
- Remove the dustcap
- Loose the bolts of the adapter plate and the flexible coupling
- Take a new flexible coupling (part number: 000118-3) and 12x new bushes (part number: 000118-3/BUSH) assemble this together with the adapter plate on the fixed coupling on the motor axle.
- Mount the dustcap.



Prevent premature wear by keeping the machine as dust free as possible. Clean the machine for this reason regularly with a dust collector

Clean the machine every day with air and non-aggressive materials. Never use a high pressure water cleaner to clean the machine.

Remove the diamond disc after using the machine.

Store the cleaned and dry machine in a dry and humid free room. Protect the electrical motor from moisture, heat, dust and shocks.

All repair work must to be done by qualified Blastrac personnel, this to guarantee a safe and reliable machine.

Any guarantee on the machine is expired when:

- Non original Blastrac parts and diamond discs have been used
- Repair work is not done by qualified Blastrac personnel
- Changes, add on´s or conversions are undertaken without written permission of Blastrac BV

7. Technical data

	BG-250E 3x400V / 50	BG-250E 3x400V / 60	BG-250E 3x230V 50/60	BG-250P
Power consumption	5,5 kW	6,3 kW	5.5 / 6,3 kW	7,6 kW
Electrical connection	400V / 50Hz	400V / 60Hz	230V / 50/60Hz	-
Diameter diamond disc	Ø 250 mm	Ø 250 mm	Ø 250 mm	Ø 250 mm
Working width	250 mm	250 mm	250 mm	250 mm
Rotation speed	1920 min^{-1}	1950 min^{-1}	1950 min^{-1}	2000 min^{-1}
Length	1301 mm	1301 mm	1301 mm	1301 mm
Width	458 mm	458 mm	458 mm	458 mm
Height	1106 mm	1106 mm	1106 mm	1106 mm
Weight	146 kg	146 kg	146 kg	142 kg
Disc pressure	55 kg	55 kg	55 kg	50 kg
Noise level (under load)	83dB(A)	83dB(A)	83dB(A)	90dB(A)
Dust hose connection	75 mm Ø	75 mm Ø	75 mm Ø	75 mm Ø
Suitable filter unit	Contact Blastrac BV We will assist you with a good advice			

Design and specifications are subject to change without notice by Blastrac BV

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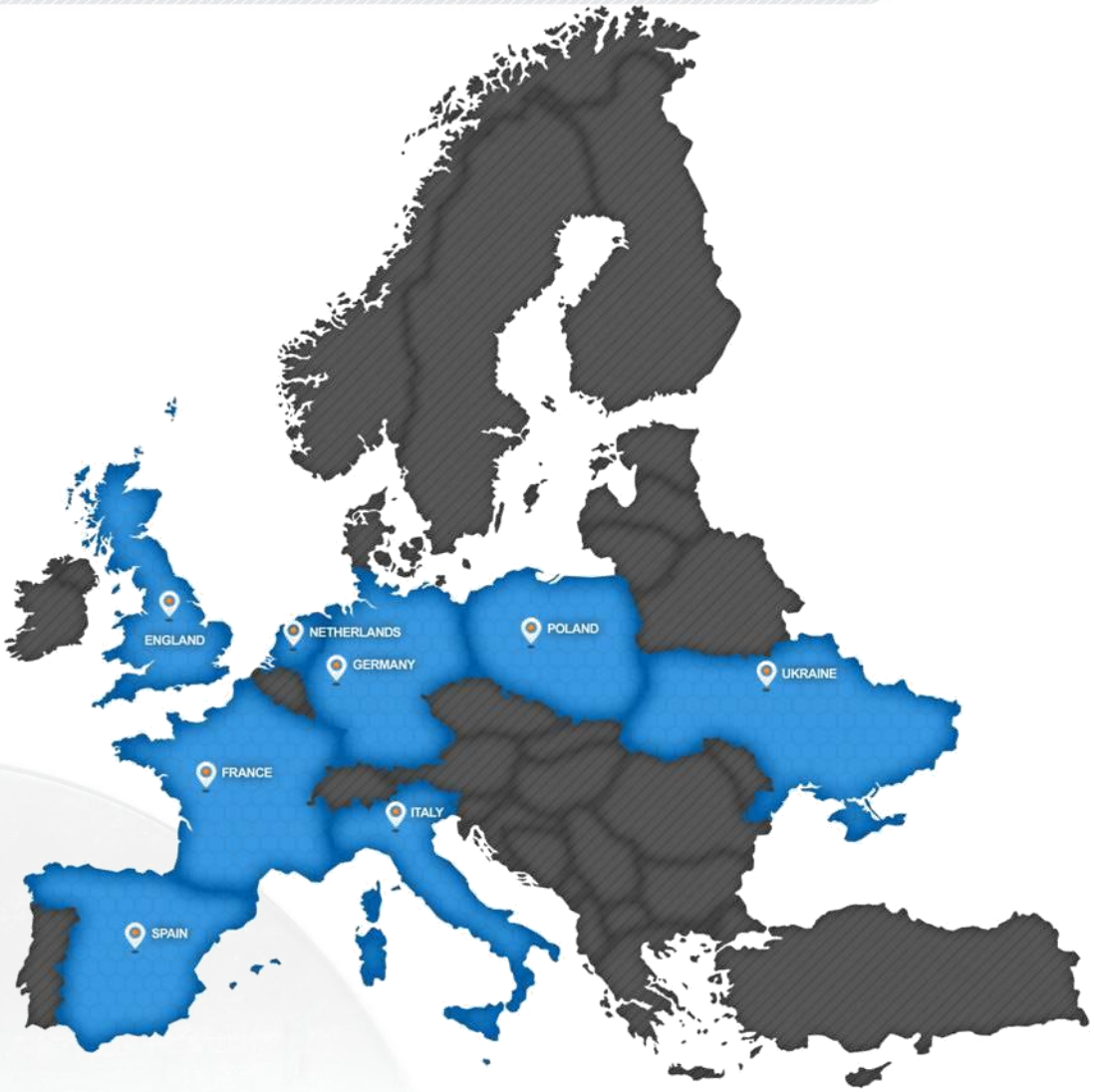

Headquarter
Blastrac The Netherlands
Utrechthaven 12
NL – 3433 PN Nieuwegein
Tel – 0031 30 601 88 66
Fax – 0031 30 601 83 33
Info@blastrac.nl

Blastrac Poland
Golina, Dworcowa 47a
PL – 63-200 Jarocin
Tel – 0048 627 40 41 50
Fax – 0048 627 40 41 51
Info@blastrac.pl

Blastrac Italy
S.S. 10 Padana Inferiore, 41
IT – 29012 Caorso (PC)
Tel – 0039 0523 81 42 41
Fax – 0039 0523 81 42 45
Info@blastra.it

Blastrac United Kingdom
Unit 2, Outgang Lane, Dinnington
Sheffield, South Yorkshire
GB – S25 3QY, England
Tel – 0044 1909 56 91 18
Fax – 0044 1909 56 75 70
Info@blastrac.co.uk

Blastrac Germany
Richard Byrd Straβe 15
D – 50829 Köln (Ossendorf)
Tel – 0049 221 70 90 32 0
Fax – 0049 221 70 90 32 22
Info@blastrac.de

Blastrac Spain
Calle Copernico, 16
Nave 2
E – 28820 Coslada
Tel – 0034 91 660 10 65
Fax – 0034 91 672 72 11
Info@blastrac.com.es

Blastrac France (ZI)
29, Avenue des Temps Modernes
F – 86360 Chasseneuil du Poitou
Tel – 0033 549 00 49 20
Fax – 0033 549 00 49 21
Info@blastrac.fr

Blastrac Ukraine
Nezalezhnosti 14, of. 21
UA – 07400 Brovary
Tel – 0038 44 222 51 28
Fax – 0038 44 277 98 29
Info@blastrac.com.ua